## On Hilbert schemes of scrolls of genus g

## Flaminio Flamini

In this talk I will report on some recent results, obtained in collaboration with A. Calabri, C. Ciliberto and R. Miranda, concerning the study of Hilbert schemes parametrizing smooth surface scrolls of (sectional) genus g and degree d, which are linearly normal in their projective span. If time permits, I also want to discuss some connections with degenerations of surfaces as well as with applications to the study of families of degree d rank-two vector bundles on a curve of genus g with general moduli.